US010137585B2

(12) **United States Patent**
Gonterman

(10) **Patent No.: US 10,137,585 B2**
(45) **Date of Patent: Nov. 27, 2018**

(54) **RAZOR ASSEMBLY**

(71) Applicant: **Paula Gonterman**, San Rafael, CA (US)

(72) Inventor: **Paula Gonterman**, San Rafael, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **15/341,095**

(22) Filed: **Nov. 2, 2016**

(65) **Prior Publication Data**

US 2018/0117781 A1 May 3, 2018

(51) **Int. Cl.**

B26B 21/52	(2006.01)
B26B 21/22	(2006.01)
B26B 21/44	(2006.01)

(52) **U.S. Cl.**

CPC ***B26B 21/522*** (2013.01); ***B26B 21/222*** (2013.01); ***B26B 21/225*** (2013.01); ***B26B 21/443*** (2013.01); ***B26B 21/521*** (2013.01); ***B26B 21/525*** (2013.01); ***B26B 21/527*** (2013.01)

(58) **Field of Classification Search**

CPC ... B26D 21/522; B26B 21/527; B26B 21/225; B26B 21/443; B26B 21/521; B26B 21/525

USPC 30/50, 51, 541, 298

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,457,887	A *	10/1995	Grange	A45D 27/29 30/34.05
5,903,978	A *	5/1999	Prochaska	A45D 27/29 30/34.05
6,018,877	A	2/2000	Greene	
6,029,356	A	2/2000	Sprinkle	
6,493,950	B1	12/2002	Kludjian et al.	
6,550,148	B2	4/2003	Cecil	
D481,169	S	10/2003	Cheung	
7,140,115	B2	11/2006	Greene	
D542,104	S *	5/2007	Holcomb	B26B 21/521 D7/695
2008/0072430	A1 *	3/2008	Cafaro	B26B 19/06 30/45
2012/0297625	A1 *	11/2012	Madden	B26B 21/521 30/42
2013/0255455	A1 *	10/2013	McCue	B26B 19/06 83/13
2014/0290066	A1 *	10/2014	Woolfson	B26B 21/527 30/50
2015/0183119	A1	7/2015	Contaldi	
2015/0257604	A1 *	9/2015	Heyden	A47J 43/14 30/120.1
2016/0151924	A1 *	6/2016	Gers-Barlag	B26B 21/52 30/34.05

FOREIGN PATENT DOCUMENTS

WO	WO2012107713	8/2012

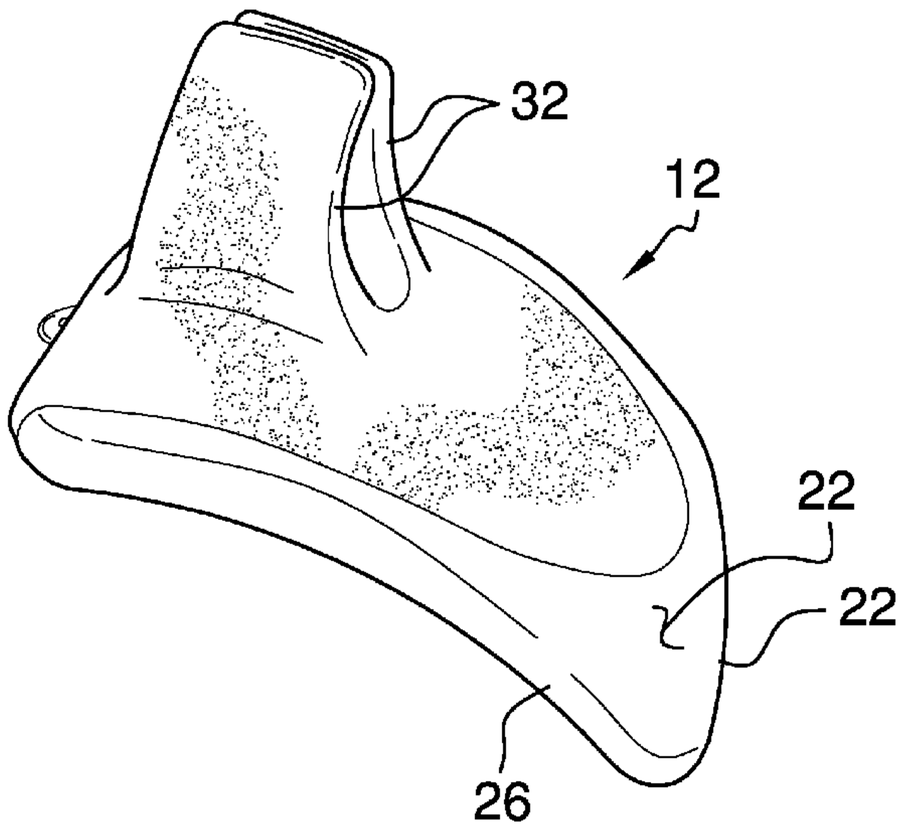
* cited by examiner

Primary Examiner — Omar Flores Sanchez

(57) **ABSTRACT**

A razor assembly for shaving with an open palm includes a grip. The grip may be positioned in a palm of a hand thereby facilitating the grip to inhibit symptoms of tendonitis. A blade unit is removably coupled to the grip. Thus, the blade unit may shave hair.

7 Claims, 5 Drawing Sheets



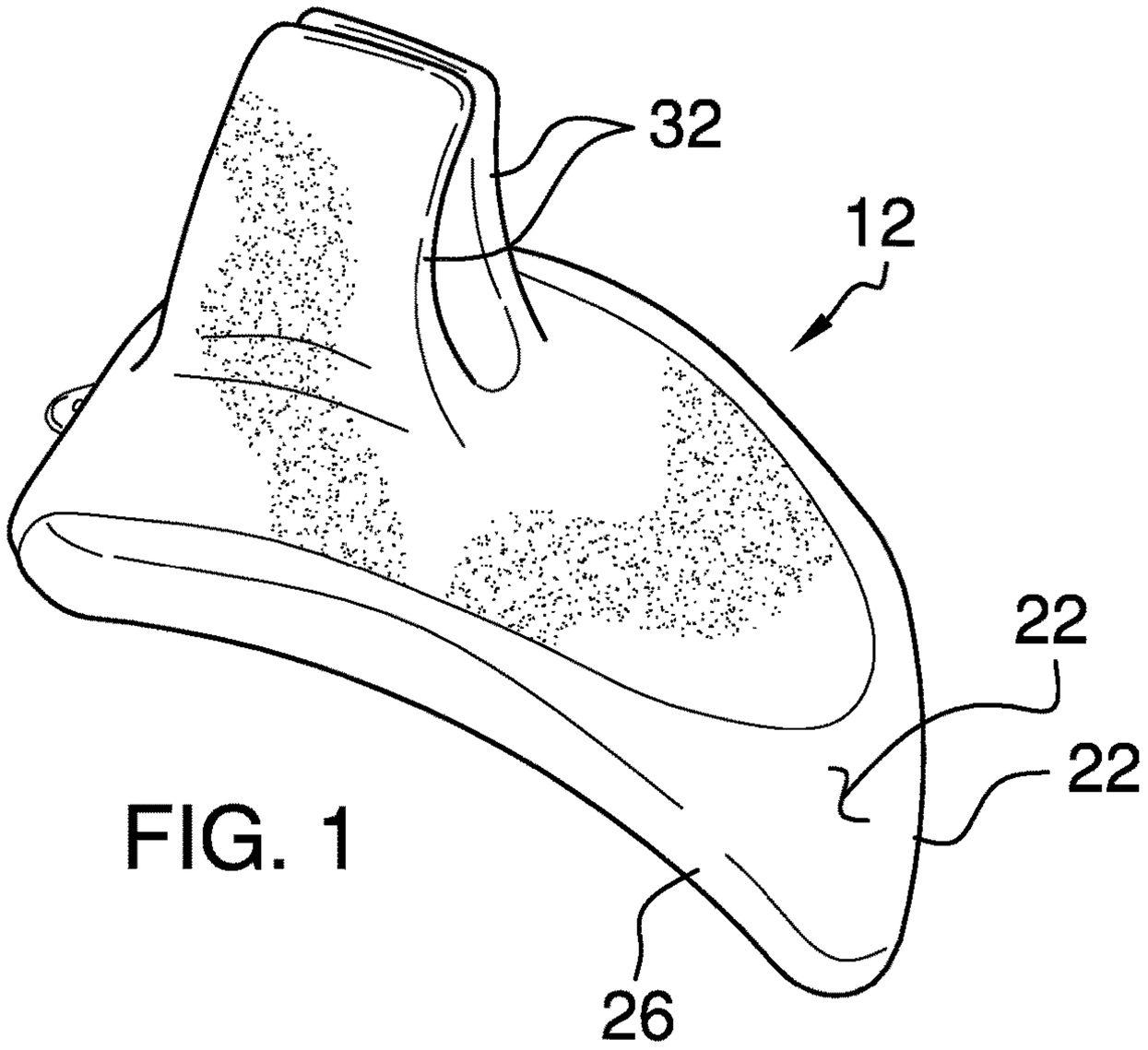


FIG. 1

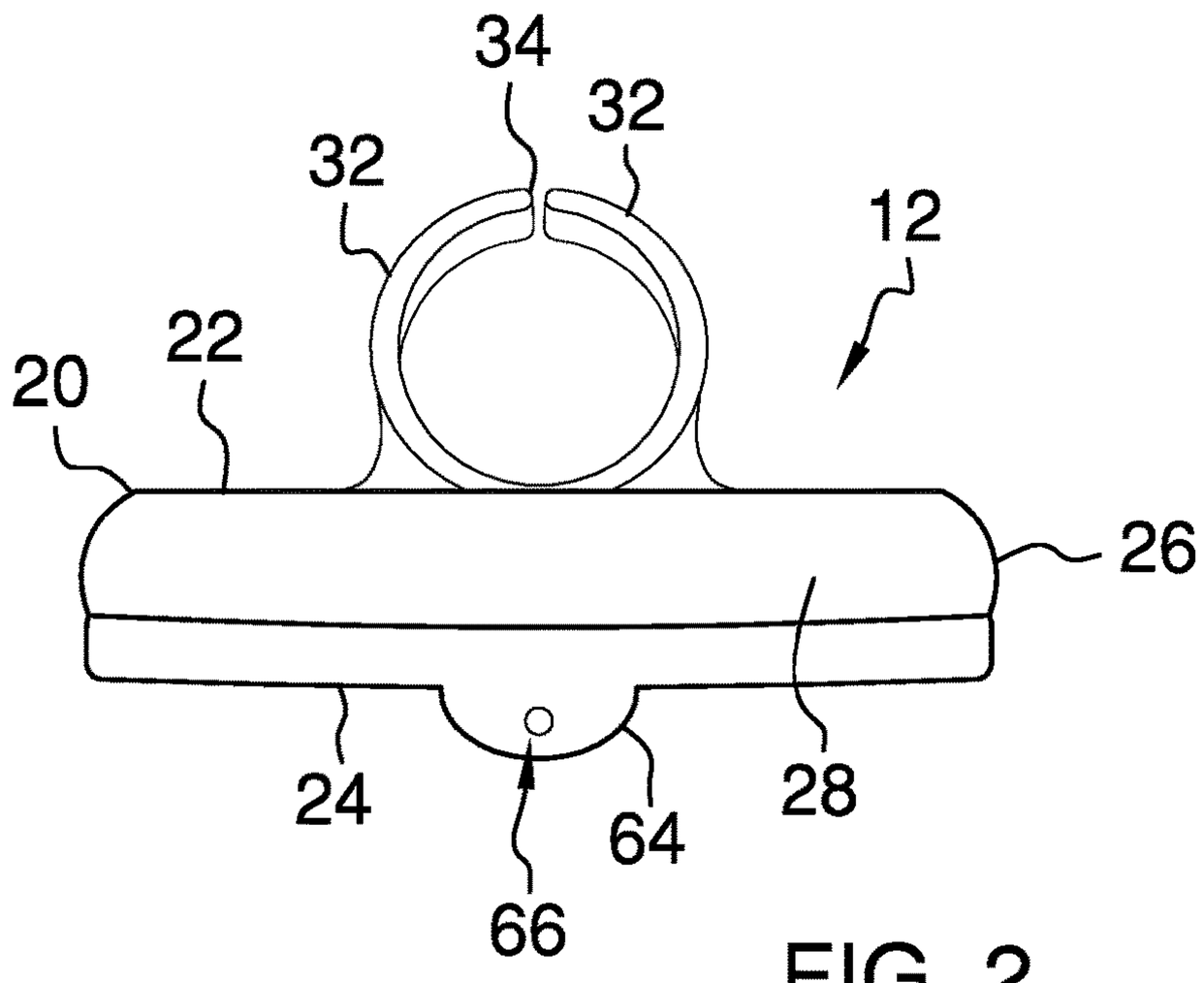


FIG. 2

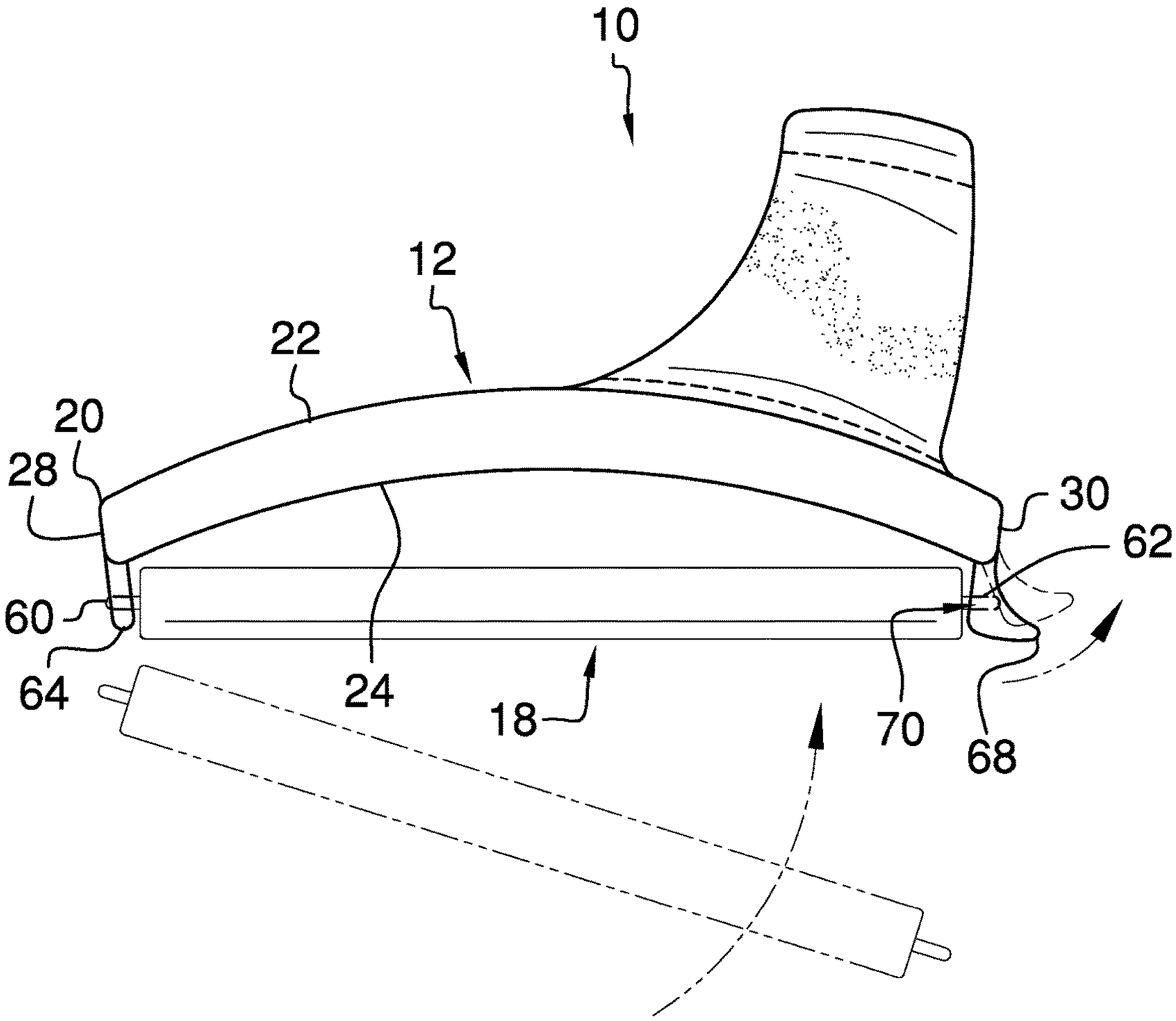


FIG. 3

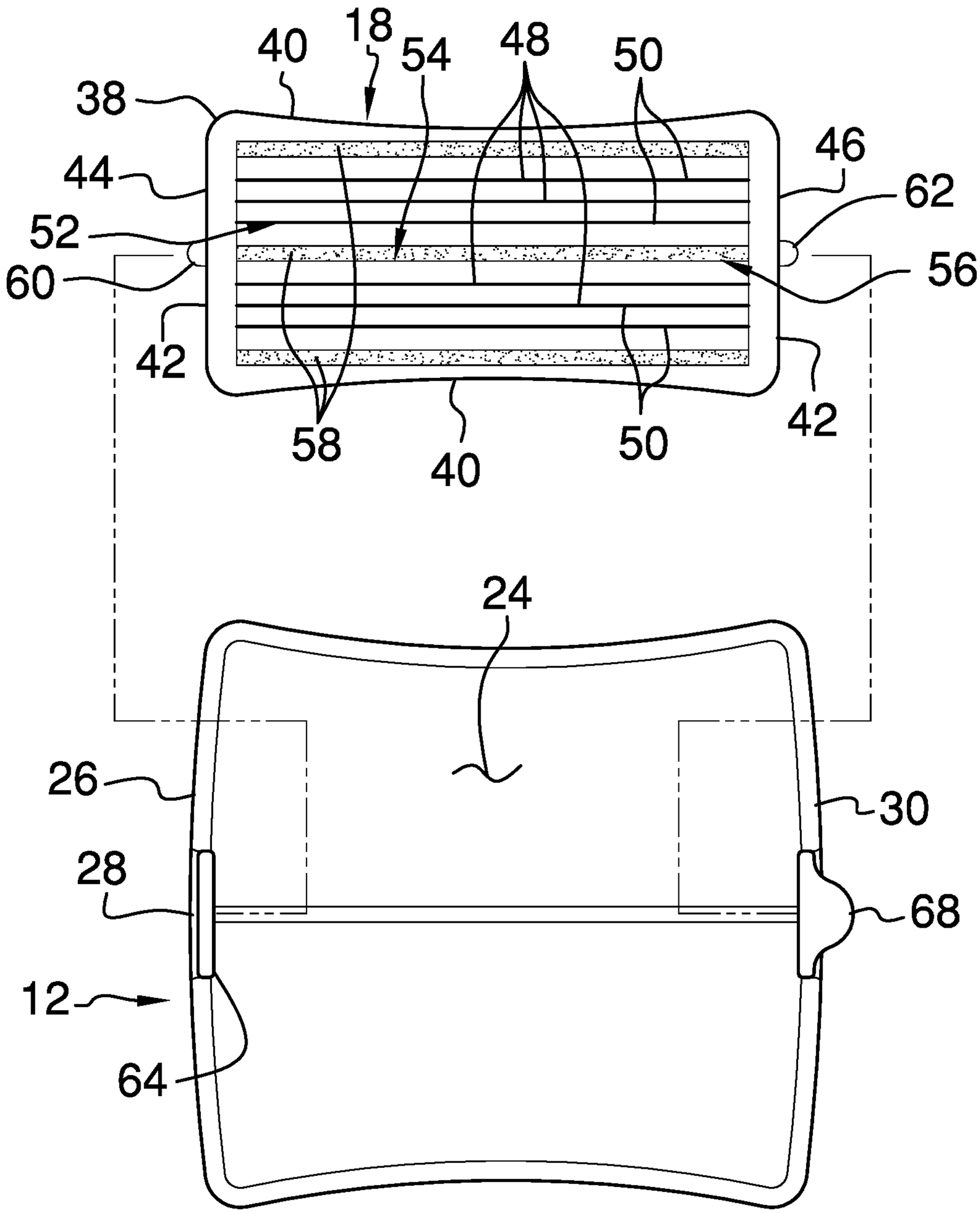


FIG. 4

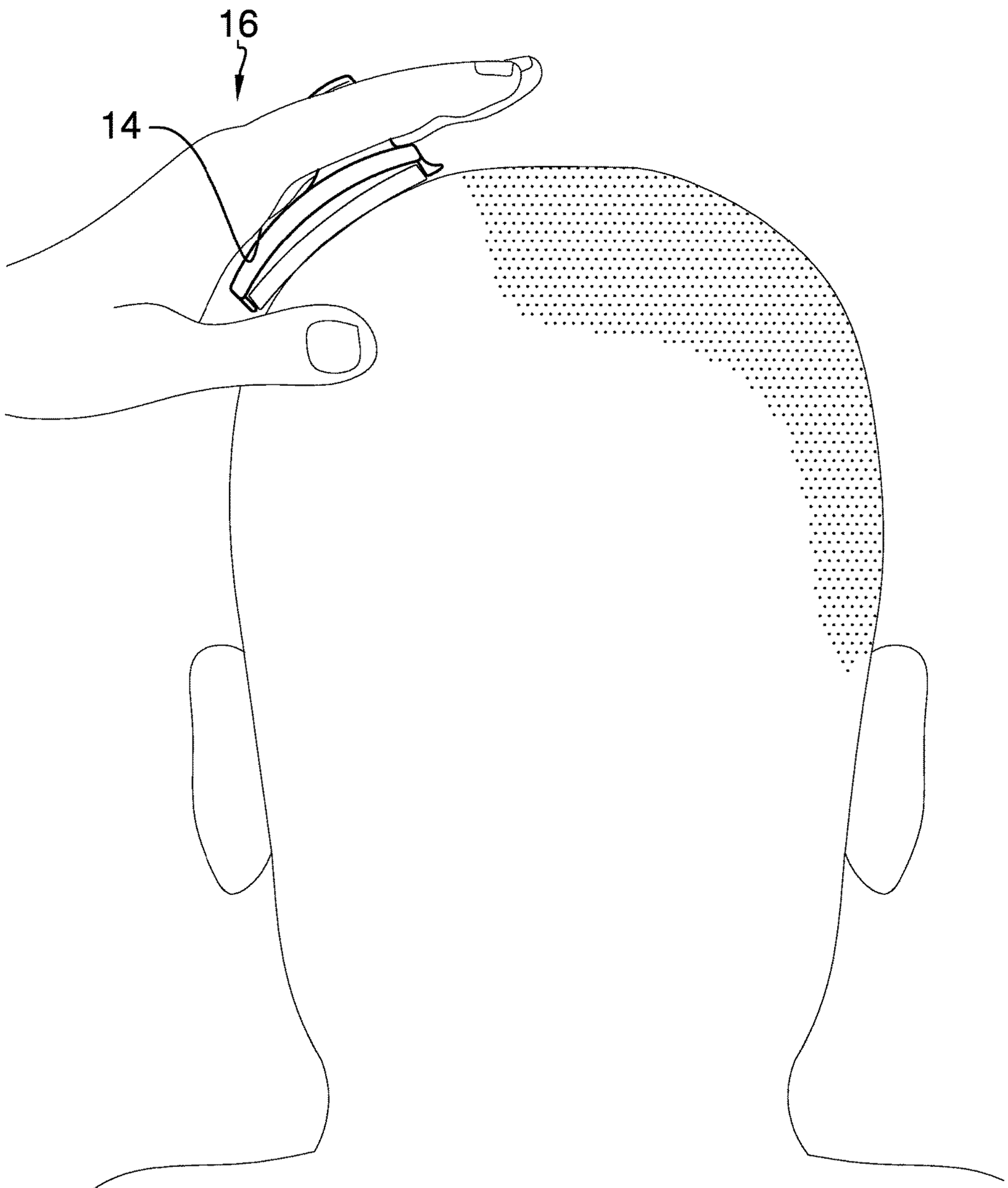


FIG. 5

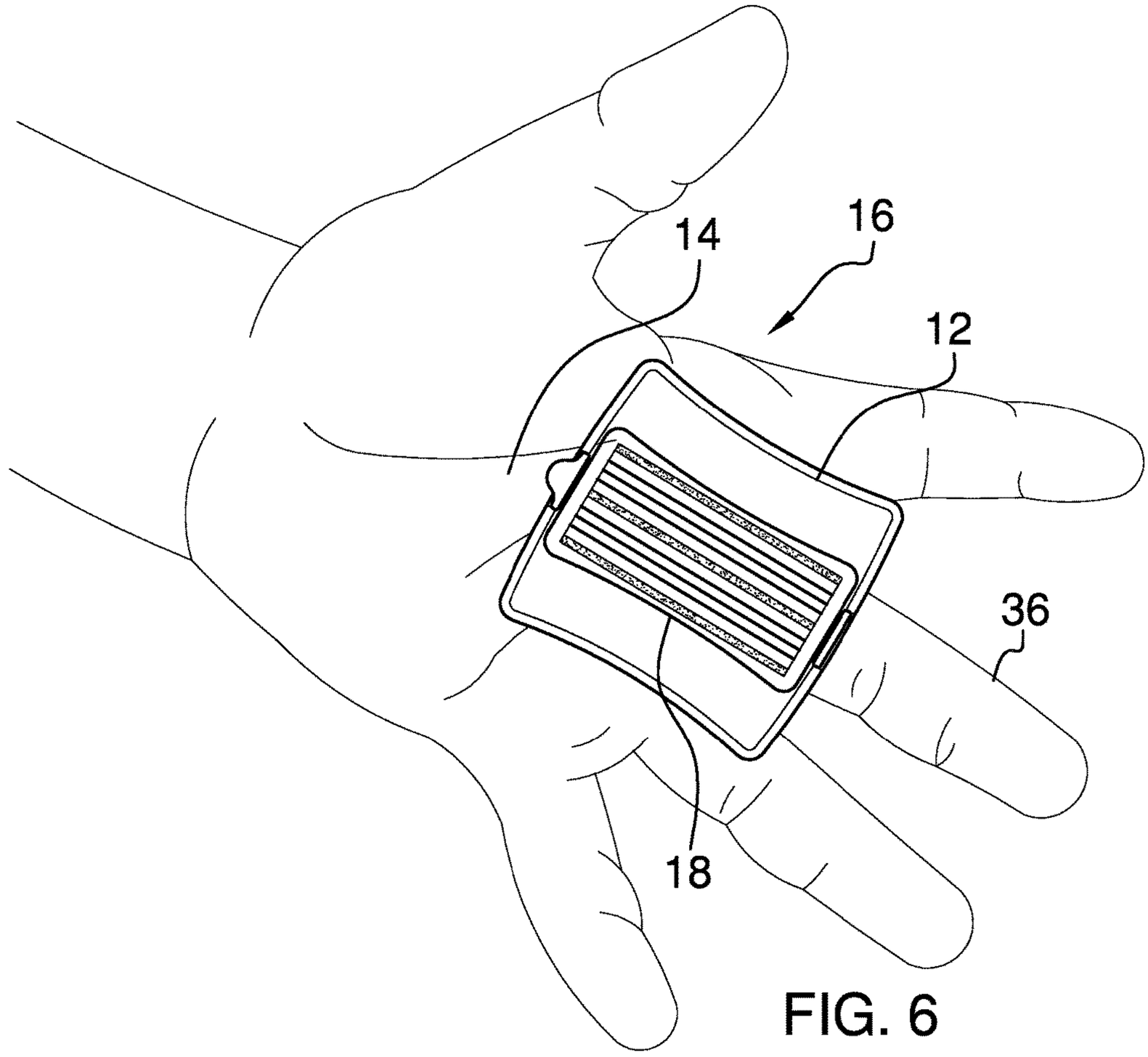


FIG. 6

RAZOR ASSEMBLY

CROSS-REFERENCE TO RELATED APPLICATIONS

Not Applicable

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT

Not Applicable

THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT

Not Applicable

INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC OR AS A TEXT FILE VIE THE OFFICE ELECTRONIC FILING SYSTEM

Not Applicable

STATEMENT REGARDING PRIOR DISCLOSURES BY THE INVENTOR OR JOINT INVENTOR

Not Applicable

BACKGROUND OF THE INVENTION

(1) Field of the Invention

(2) Description of Related Art Including Information Disclosed Under 37 CFR 1.97 and 1.98

The disclosure and prior art relates to razor devices and more particularly pertains to a new razor device for shaving with an open palm.

BRIEF SUMMARY OF THE INVENTION

An embodiment of the disclosure meets the needs presented above by generally comprising a grip. The grip may be positioned in a palm of a hand thereby facilitating the grip to inhibit symptoms of tendonitis. A blade unit is removably coupled to the grip. Thus, the blade unit may shave hair.

There has thus been outlined, rather broadly, the more important features of the disclosure in order that the detailed description thereof that follows may be better understood, and in order that the present contribution to the art may be better appreciated. There are additional features of the disclosure that will be described hereinafter and which will form the subject matter of the claims appended hereto.

The objects of the disclosure, along with the various features of novelty which characterize the disclosure, are pointed out with particularity in the claims annexed to and forming a part of this disclosure.

BRIEF DESCRIPTION OF SEVERAL VIEWS OF THE DRAWING(S)

The disclosure will be better understood and objects other than those set forth above will become apparent when

consideration is given to the following detailed description thereof. Such description makes reference to the annexed drawings wherein:

FIG. **1** is a perspective view of a grip of a razor assembly according to an embodiment of the disclosure.

FIG. **2** is a front view of grip of an embodiment of the disclosure.

FIG. **3** is a right side view of an embodiment of the disclosure.

FIG. **4** is a bottom exploded view of an embodiment of the disclosure.

FIG. **5** is a perspective in-use view of an embodiment of the disclosure.

FIG. **6** is a bottom perspective in-use view of an embodiment of the disclosure.

DETAILED DESCRIPTION OF THE INVENTION

With reference now to the drawings, and in particular to FIGS. **1** through **6** thereof, a new razor device embodying the principles and concepts of an embodiment of the disclosure and generally designated by the reference numeral **10** will be described.

As best illustrated in FIGS. **1** through **6**, the razor assembly **10** generally comprises a grip **12**. The grip **12** may be positioned in a palm **14** of a hand **16** thereby facilitating the grip **12** to inhibit symptoms of tendonitis. A blade unit **18** is provided and the blade unit **18** is removably coupled to the grip **12**. Thus, the blade unit **18** may shave hair. The hair may be whiskers or the like.

The grip **12** comprises a panel **20** that has a first surface **22**, a second surface **24** and a peripheral edge **26** extending therebetween. The peripheral edge **26** has a first lateral side **28** and a second lateral side **30**. Moreover, the panel **20** is concavely arcuate between the first lateral side **28** and the second lateral side **30**. Thus, the panel **20** conforms to the palm **14** of the hand **16** thereby enhancing gripping the panel **20**.

A pair of horns **32** is provided. Each of the horns **32** is coupled to and extends upwardly from the first surface **22**. The horns **32** are spaced apart from each other. Each of horns **32** has a distal end **34** with respect to the first surface **22**.

Each of the horns **32** is concavely arcuate between the first surface **22** and the distal end **34**. Thus, each of the pair of horns **32** forms an open ring. Each of the horns **32** may engage a finger **36** thereby facilitating the panel **20** to be retained on the palm **14**. Moreover, each of the horns **32** is positioned closer to the second lateral side **30** than the first lateral side **28**.

The blade unit **18** includes a frame **38**. The frame **38** has a pair of first members **40** extending between each of a pair of second members **42**. The first members **40** are spaced apart from each other such that the frame **38** forms a rectangle. The pair of second members **42** includes a primary member **44** and a secondary member **46**. A plurality of blades **48** is provided. The blades **48** are coupled between each of the second members **42**. Each of the blades **48** has a cutting edge **50**.

The plurality of blades **48** includes a first set of blades **52** and a second set of blades **54**. Each of the first set of blades **52** and each of the second set of blades **54** are spaced from a center **56** of the frame **38**. The cutting edge **50** corresponding to the first set of blades **52** is directed toward the center **56** of the frame **38**. The cutting edge **50** corresponding to the second set of blades **54** is directed toward the center **56** of the frame **38**.

A plurality of lubrication strips **58** is provided. Each of the lubrication strips **58** is coupled between the second members **42**. Moreover, the lubrication strips **58** are spaced apart from each other and distributed between the first set of blades **52** and the second set of blades **54**. Each of the lubrication strips **58** enhances comfort of the blades **48**. A first pin **60** is coupled to and extends away from the primary member **44**. A second pin **62** is coupled to and extends away from the secondary member **46**.

A first tab **64** is coupled to and extends away from the second surface **24** of the panel **20**. The first tab **64** is aligned with the first lateral side **28** of the panel **20**. A first opening **66** extends through the first tab **64**. The first pin **60** on the blade unit **18** extends through the first opening **66**.

A second tab **68** is provided. The second tab **68** is coupled to and extends away from the second surface **24** of the panel **20**. The second tab **68** is aligned with the second lateral side **30** of the panel **20**. A second opening **70** extends through the second tab **68**.

The second pin **62** on the blade unit **18** extends through the second tab **68**. Thus, the blade unit **18** is retained on the grip **12**. The second tab **68** is comprised of a resiliently bendable material. Thus, the second tab **68** may be urged away from the blade unit **18** thereby facilitating the blade unit **18** to be removed from the panel **20**.

In use, the blade unit **18** is coupled between the first tab **64** and the second tab **68**. The finger **36** is extended between each of the horns **32** and the panel **20** is positioned on the palm **14**. The grip **12** is manipulated thereby facilitating each of the blades **48** to shave hair. The grip **12** facilitates the blade unit **18** to be manipulated with an open palm **14**. Thus, the grip **12** inhibits symptoms of carpal tunnel or the like from being aggravated by shaving with a closed hand **16**.

With respect to the above description then, it is to be realized that the optimum dimensional relationships for the parts of an embodiment enabled by the disclosure, to include variations in size, materials, shape, form, function and manner of operation, system and use, are deemed readily apparent and obvious to one skilled in the art, and all equivalent relationships to those illustrated in the drawings and described in the specification are intended to be encompassed by an embodiment of the disclosure.

Therefore, the foregoing is considered as illustrative only of the principles of the disclosure. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the disclosure to the exact construction and operation shown and described, and accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the disclosure. In this patent document, the word "comprising" is used in its non-limiting sense to mean that items following the word are included, but items not specifically mentioned are not excluded. A reference to an element by the indefinite article "a" does not exclude the possibility that more than one of the element is present, unless the context clearly requires that there be only one of the elements.

I claim:

1. A razor assembly being configured to be removably positioned in a palm thereby facilitating a razor to shave hair, said assembly comprising:

a grip being configured to be positioned in a palm of a hand thereby facilitating said grip to inhibit symptoms of tendonitis, said grip including a panel having a first surface, a second surface and a peripheral edge extending therebetween, said peripheral edge having a first lateral side and a second lateral side, said panel being concavely arcuate between said first lateral side and said second lateral side wherein said panel is configured to conform to a palm of a hand; and

a blade unit being removably coupled to said grip wherein said blade unit is configured to shave hair, said blade unit including a frame, said frame having a pair of first members extending between each of a pair of second members, a plurality of blades being coupled between each of said second members, said plurality of blades being arranged to include a first set of blades and a second set of blades, said first set of blades and said second set of blades each being positioned on opposite sides of a center of said frame, each blade of said first set of blades and said second set of blades having a cutting edge directed towards said center of said frame.

2. The assembly according to claim **1**, further comprising a pair of horns, each of said horns being coupled to and extending upwardly from said first surface, said horns being spaced apart from each other, each of horns having a distal end with respect to said first surface.

3. The assembly according to claim **2**, wherein each of said horns is concavely arcuate between said first surface and said distal end such that said pair of horns forms an open ring wherein each of said horns is configured to engage a finger thereby facilitating said panel to be retained on the palm, each of said horns being positioned closer to said second lateral side than said first lateral side.

4. The assembly according to claim **1**, further comprising a first tab being coupled to and extending away from said second surface of said panel, said first tab being aligned with said first lateral side of said panel, said first tab being configured to engage said blade unit.

5. The assembly according to claim **4**, further comprising a second tab being coupled to and extending away from said second surface of said panel, said second tab being aligned with said second lateral side of said panel, said second tab engaging said blade unit thereby facilitating the razor to be removably retained on said panel.

6. The assembly according to claim **5**, wherein said second tab is comprised of a resiliently bendable material wherein said second tab is configured to be manipulated thereby facilitating the blade unit to be removed from said panel.

7. A razor assembly being configured to be removably positioned in a palm thereby facilitating a razor to shave hair, said assembly comprising:

a grip being configured to be positioned in a palm of a hand thereby facilitating said grip to inhibit symptoms of tendonitis, said grip being configured to selectively engage a razor thereby facilitating the razor to shave hair, said grip comprising:

a panel having a first surface, a second surface and a peripheral edge extending therebetween, said peripheral edge having a first lateral side and a second lateral side, said panel being concavely arcuate between said first lateral side and said second lateral side wherein said panel is configured to conform to a palm of a hand,

a pair of horns, each of said horns being coupled to and extending upwardly from said first surface, said horns being spaced apart from each other, each of horns having a distal end with respect to said first surface, each of said horns being concavely arcuate between said first surface and said distal end such that said pair of horns forms an open ring wherein each of said horns is configured to engage a finger thereby facilitating said panel to be retained on the

palm, each of said horns being positioned closer to said second lateral side than said first lateral side,

a first tab being coupled to and extending away from said second surface of said panel, said first tab being aligned with said first lateral side of said panel, said first tab being configured to engage an end of the razor, and

a second tab being coupled to and extending away from said second surface of said panel, said second tab being aligned with said second lateral side of said panel, said second tab being configured to engage an end of the razor thereby facilitating the razor to be removably retained on said panel, said second tab being comprised of a resiliently bendable material wherein said second tab is configured to be urged away from the razor thereby facilitating the razor to be removed from said panel; and

a blade unit being removably coupled to said grip wherein said blade unit is configured to shave hair, said blade unit including a frame, said frame having a pair of first members extending between each of a pair of second members, a plurality of blades being coupled between each of said second members, said plurality of blades being arranged to include a first set of blades and a second set of blades, said first set of blades and said second set of blades each being positioned on opposite sides of a center of said frame, each blade of said first set of blades and said second set of blades having a cutting edge directed towards said center of said frame.

* * * * *